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AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A lithium ion secondary battery comprising:

a positive electrode eapable of for absorbing and desorbing lithium ion;

a negative electrode eapable of for absorbing and desorbing lithium ion;

a porous film interposed between said positive electrode and said negative electrode, the

porous film having a thickness of 0.5 to 20 µm;

a sheet separator interposed between said positive electrode and said porous film, the

sheet separator having a thickness of 8 to 25 µm and being made of a polyolefin resin; and

a non-aqueous electrolyte;

wherein said porous film is adhered to a surface of at least said negative electrode,

a total thickness of said sheet separator and said porous film is 15 to 30 μm,

said porous film comprises an inorganic filler and a first binder, a content of said first

binder in said porous film being 1.5 to 8 parts by weight per 100 parts by weight of said filler,

said first binder comprises core-shell type particles of acrylonitrile-acrylate copolymer as

a first rubber, said first rubber being water-insoluble and having a decomposition temperature of

250°C or higher,

said negative electrode comprises a negative electrode active material eapable of for

absorbing and desorbing lithium ion and a second binder,

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said second binder includes a second rubber particle <u>comprising a polymer</u> including a styrene unit and a butadiene unit, and a water-soluble polymer <u>comprising a polymer</u> including a methylcellulose unit, and

a content of said second binder in said negative electrode is 1.5 to 3 parts by weight per 100 parts by weight of said negative electrode active material.

- (Original) The lithium ion secondary battery in accordance with claim 1, wherein said first rubber has a crystalline melting point of 250 °C or more.
- (Original) The lithium ion secondary battery in accordance with claim 1, wherein said first rubber includes a polyacrylonitrile chain.

## 4-7. (Cancelled)

- 8. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic filler comprises an inorganic oxide.
- 9. (Previously presented) The lithium ion secondary battery in accordance with claim 8, wherein a surface of said inorganic oxide is alkaline and has a BET specific surface area of  $0.9 \,$  m<sup>2</sup>/g or more.
- 10. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic oxide includes at least one selected from the group consisting of alumina and titanium oxide.
- 11. (Original) The lithium ion secondary battery in accordance with claim 1, wherein a surface roughness of said porous film is less than a surface roughness of an electrode surface to which said porous film is adhered to.

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12. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said inorganic filler comprises a mixture of a large particle group and a small particle group, and an average particle size A of said large particle group and an average particle size B of said small particle group satisfy the formula (1):

 $0.05 \le B/A \le 0.25$ .

13. (Original) The lithium ion secondary battery in accordance with claim 1, wherein said positive electrode and said negative electrode are wound with said porous film interposed therebetween.

14-16. (Cancelled)

- 17. (Previously presented) The lithium ion secondary battery in accordance with claim 1, wherein a surface of said inorganic filler is alkaline.
- 18. (Previously Presented) The lithium ion secondary battery in accordance with claim 1, wherein the acrylate of the core-shell type particles forms an acidic adhesive surface portion on a surface of the core-shell type particles.